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***SOFTWARE ENGEENRING***

***PROF. SHAHBAZ QADEER***

***ASSIGNMENT 3***

***STEPS TO PREPARE AN ERD OF GIVEN SCENERIO:***

**Understand the Requirements**

* 1. Identify the entities (e.g., Doctor, Patient, Appointment, Bill, Insurance).
  2. Define their attributes (e.g., Doctor: Name, Specialization; Patient: Name, Age, Disease).
  3. Determine relationships between entities (e.g., Doctor schedules appointments, Patient makes payments).

**List Entities and Attributes**

* 1. Write down all the entities and their key attributes.

For example:

* + 1. Doctor: Name, ID, Specialization field.
    2. Patient: Name, ID, Age, Disease.

**Define Relationships**

* 1. Use diamonds to represent relationships.
  2. Add labels to describe the nature of the relationships (e.g., schedules, insured, generates).

**Connect Entities**

* 1. Use lines to connect entities with relationships.
  2. Add cardinality (one-to-one, one-to-many, many-to-many) if needed. For example:
     1. A doctor **schedules** many appointments.
     2. A patient **makes** one or more payments.

**Add Attributes**

* 1. Use ovals for attributes and link them to their corresponding entities or relationships.

**Draw the Diagram**

### ***Upload the Diagram to GitHub:***

**Save the Diagram**

* 1. If it's a physical copy, scan or take a clear photo (you've already done this).
  2. Convert it to a digital format (e.g., JPEG or PNG).

**Prepare the File**

* 1. Rename the file to something descriptive like ERD.jpg.

**Create a GitHub Repository**:

* 1. Log in to your GitHub account.
  2. Click on **New Repository**.
  3. Name the repository (e.g., SE\_Assignment\_ERD).

**Upload the File**

* 1. Go to the newly created repository.
  2. Click on **Add File** > **Upload Files**.
  3. Drag and drop the image file or click **Choose your files** to upload.

**Commit Changes**

* 1. Add a commit message like "Uploaded ERD Diagram for Assignment".
  2. Click **Commit changes** to save the file in the repository.

**Share the Repository**

* 1. Copy the repository link
  2. Share it with your instructor or teammates if needed.

***LINK OF ERD FOR PROVIDED SCENRIO:***

https://github.com/SUBHAN-SHAHNAWAZ/Assignment-2-ERD-DIAGRAM/blob/main/assignment%203%20se-ERD%20DIAGRAM.jpg